

Augmentation of Virtual Space Physics Observatory Services to Expand Data Access Capabilities, Phase I

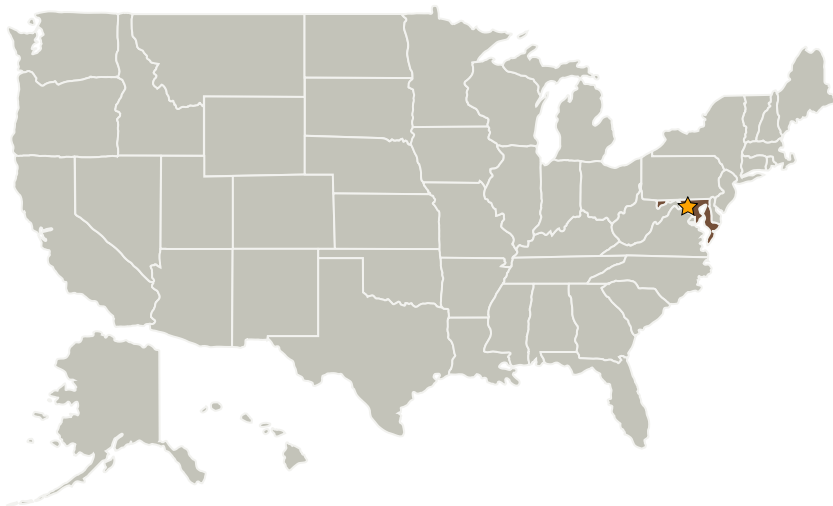
Completed Technology Project (2004 - 2004)



Project Introduction

Aquilent, Inc. proposes to support the effort of Virtual Space Physics Observatory (VSPO) by developing services to expand the VSPO search capabilities, developing tools that facilitate metadata conversion and input, and integrating existing standalone visualization applications to operate in the VSPO environment. This proposal seeks to: ? Enable scientists to execute advanced search queries. (Queries which rely on more than product description metadata) ? Enable scientists to utilize VSPO middleware capabilities directly from visualization applications. ? Develop services that provide support for advanced search queries. Integrate these services into the VSPO architecture. ? Develop a metadata editor tool, designed to simplify metadata entry/mapping associated with describing data products. ? Integrate standalone visualization applications such as ViSBARD[1] to work seamlessly with VSPO middleware.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
Aquilent	Supporting Organization	Industry	Laurel, Maryland



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations

Maryland

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Vasili G Rezapkin

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding